

Title (en)

Congestion control for connectionless traffic in data networks via alternate routing

Title (de)

Überlastungsregelung für verbindungslosen Verkehr in Datennetzen durch Umweglenkung

Title (fr)

Contrôle de la congestion pour trafic en mode sans-connexion dans un réseau de données employant acheminement alternatif

Publication

**EP 0465090 B1 19960424 (EN)**

Application

**EP 91305728 A 19910625**

Priority

US 54845790 A 19900703

Abstract (en)

[origin: EP0465090A1] A congestion control scheme for connectionless networks relieves congestion by routing a portion of traffic on a congested primary path onto a predefined alternate path constructed such that loop-freedom is guaranteed. Explicit care is taken to avoid spreading congestion onto alternate paths. The control actions are taken in a completely distributed manner, based on local measurements only and therefore no signaling messages need to be exchanged between nodes. If desired, lower loss priority may be assigned to alternate routed traffic. Congestion is monitored locally and thresholds defined to declare the onset and abatement of congestion. The present invention affords at least an order of magnitude improvement in end-to-end cell blocking under sustained focussed overload.

IPC 1-7

**H04L 12/56**

IPC 8 full level

**H04L 12/56** (2006.01); **H04Q 3/66** (2006.01)

CPC (source: EP US)

**H04L 45/00** (2013.01 - US); **H04L 45/122** (2013.01 - EP US); **H04L 45/18** (2013.01 - EP US); **H04L 45/22** (2013.01 - US); **H04L 45/247** (2022.05 - EP); **H04L 47/10** (2013.01 - EP US); **H04L 47/122** (2013.01 - EP US); **H04L 47/29** (2013.01 - EP US); **H04L 47/30** (2013.01 - EP US); **H04Q 3/665** (2013.01 - EP US)

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